

\* NOTICES \*

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

CLAIMS

---

[Utility model registration claim]

[Claim 1] While the right-and-left side edge of before and a backward bodice sets at least to said joint by piling up and joining past time and a back bodice by the inside of the circumference flank of the right-and-left waist and being turned outside In the disposable trousers mold wear goods with which circumference opening of a drum and circumference opening of a foot of a Uichi Hidari pair are formed of said junction One side by the side of an end fixes on either external surface of past time and a back bodice [ near the periphery of circumference opening of a drum ] at least. Said trousers mold wear goods characterized by being prepared in the external surface of the direction's bodice on which the firm attachment tape which has the adhesives spreading section on one side with the same opposite one end is extended [ said / a periphery and ], and a crossover and said fixing are not making at least said joint possible [ firm attachment ] through the binder spreading section of said opposite one end.

[Claim 2] Trousers mold wear goods according to claim 1 before [ said ], a backward bodice, and said whose firm attachment tape are elasticity ingredients.

---

[Translation done.]

\* NOTICES \*

JPO and NCIPJ are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

DETAILED DESCRIPTION

---

[Detailed explanation of a design]

[0001]

[Industrial Application]

This design is related with disposable trousers mold wear goods.

[0002]

[Description of the Prior Art]

Conventionally, as disposable trousers mold wear goods, a disposable diaper, disposable TORENINGU trousers, etc. are common knowledge. In order to make these trousers mold wear goods fit a wearer's body, there is a means to prepare elastic members, such as an elastic band, along the opening periphery of circumference opening of a drum of these goods and circumference opening of a foot.

[0003]

[Problem(s) to be Solved by the Device]

If these wear goods are too large for a wearer or the shrinkage force of an elastic member does not fully act on a wearer, there is a problem that slack arises and urine and other excrement leak [ these worn goods / the bottom of a shearing ] from the circumference of \*\* or its foot in opening of wear goods.

[0004]

Then, it is making into the technical problem to solve said problem by this design preparing the firm attachment tape which can lengthen on the external surface of wear goods in parallel with an opening periphery, and can be attached firmly to it, and enabling it to prepare darts by the slack produced in opening.

[0005]

[Means for Solving the Problem]

The place made into a summary in order that this design may solve said technical problem is as follows.

[0006]

this design — past time and later self — piling up time by the inside of the circumference flank of the right-and-left waist, and joining — it is — before and later self — it is premised on the disposable trousers mold wear goods with which circumference opening of a drum and circumference opening of a foot of a Uichi Hidari pair are formed of said junction, while the right-and-left side edge at the time sets at least to said joint and is turned outside.

[0007]

In these wear goods, one side by the side of an end fixes on either external surface of past time and a back bodice [ near the periphery of circumference opening of the waist ] at least. They are being prepared in the external surface of the direction's bodice on which the firm attachment tape which has the binder spreading section is extended [ said / a periphery and ] on one side with the same opposite one end, and a crossover and said fixing are not making at least said joint possible [ firm attachment ] through the binder spreading section of said opposite one end, and the description of a design of \*\*\*\*.

[0008]

In the desirable embodiment of this design, before [ said ], a backward bodice, and said firm attachment tape are elasticity ingredients.

[0009]

[Function]

In the trousers mold wear goods concerning this design, since the firm attachment tape which can be extended in parallel with an opening periphery, and can straddle and attach at least the joint of the

circumference flank of the waist firmly is prepared, darts can be prepared by the slack of opening produced when these goods are worn.

Moreover, before being turned outside at least by the joint, a firm attachment tape can be attached firmly so that the side edge of - backward bodice may be turned up on external surface.

[0010]

[Example]

It is as follows when it explains based on drawing of attachment of the detail of the trousers mold wear goods concerning this design.

[0011]

Drawing 1 is the perspective view of the disposable trousers mold diaper 1 concerning this design. In the diaper 1, an absorber 5 is made to intervene among these and it has piled up, and the liquid-permeable inner sheet 3 of elasticity and the non-liquid-permeable nature external surface sheet 4 of elasticity fold in two the sheets 3 and 4 set in these piles by the length-from-the-crotch-to-the-cuff part 6, join by the junction line 7 by the circumference flank of the waist on either side, and are used as the trousers mold. A diaper 1 has 1-at past time A, back bodice 1B, the circumference opening 8 of the waist, and the circumference opening 9 of a foot of a Uichi Hidari pair, and is intermittently joined to each openings 8 and 9 in parallel with those peripheries under the elongation of the ribbon-like elastic member 10 to the inside of the outside sheet 4. While you made it pile each other up, the side edge of - external surface sheets 3 and 4 has extended toward the outside of a diaper 1 in the junction line 7. In the diaper 1 before wear, an elastic member 10 contracts and each openings 8 and 9 have become a gathers cut. The firm attachment tape 11 which end one side fixed on the outside sheet 4 of back bodice 1B is formed along the periphery of each openings 8 and 9.

[0012]

Drawing 2 is X-X-ray sectional view in drawing 1, and shows the structure of the thickness direction of the firm attachment tape 11. It is the fixing part 12 and the end side of the firm attachment tape 11 has fixed the one side on the outside sheet 4 with hot melt adhesive 14. In the firm attachment tape 11, the part of the remainder of a longitudinal direction is the non-fixing part 13, and has binder spreading section 15A which applied the binder 15 to the same one side as one side which fixed, and \*\*\*\*\* 13A which has not been applied. This firm attachment tape 11 is made into the longitudinal direction through the release paper 16 at three fold. The silicon release agent 18 is applied to the field which the binder 17 with comparatively weak adhesion is applied to the external surface of the fixing part 12, and counters the binder 17 of the turned-up firm attachment tape 11. The condition that the firm attachment tape 11 turned up with this binder 17 is maintained. Thus, if the constituted firm attachment tape 11 \*\*\*\* \*\*\*\*\* 13A and pulls it in the direction of arrow-head P, the parts of a release paper 16 and a release agent 18 separate, and it can be lengthened ranging over the junction line 7 in the die-length direction.

[0013]

Drawing 3 is the perspective view of the diaper 1 in the condition of the firm attachment tape 11 which removed the release paper 16 having been pulled, and it having been attached firmly to the outside sheet 4 by the side of 1A at the past time, and having prepared darts by slack of the circumference of the drum of a diaper 1, and the circumference of a foot.

[0014]

Drawing 4 is the Y-Y line sectional view of drawing 3. It is extended so that the firm attachment tape 11 may straddle the darts part 19 which gathered and brought near the slack containing the junction line 7. Before it has attached the non-fixing part 13 firmly to the outside sheet 4 through the binder 15 and it extends from the junction line 7 by this firm attachment, - backward bodice is turned up on the outside sheet 4, and the darts part 19 gathered and brought near is extended, and the firm attachment tape 11 returns. What is necessary is to \*\*\*\* \*\*\*\*\* 13A, if and just to remove the firm attachment to the outside sheet 4 of the firm attachment tape 11, when you remove a diaper 1. The tape material of elasticity and non-elasticity can be used for the firm attachment tape 11.

[0015]

When the outside sheet 4 of a diaper 1 is a thin sheet plastic, the sheet for reinforcement can be joined to the range which may attach the firm attachment tape 11 firmly. The firm attachment tape 11 will not be torn with the thin outside sheet 4, either, if attachment and detachment are repeated to this sheet for reinforcement.

[0016]

Drawing 5 is the perspective view showing the condition of having attached the firm attachment tape 11 firmly, after rounding off the used diaper 1. Thus, if the firm attachment tape 11 is used, it can dispose of a diaper 1, without exposing the unclean part.

[0017]

[Effect of the Device]

Since darts can be prepared by that slack when slack is in the circumference of the drum of trousers, mold wear goods, or the circumference of a foot, and an end lengthens and attaches an adhesive firm attachment tape firmly, while the feeling of a fit of these wear goods becomes good, it can prevent excrement's leaking and coming out. Moreover, this firm attachment tape can turn up a part for the lobe from a crossover and a junction line for the junction line of before and a backward bodice outside. Thus, this shirt can be made to fit the body well, without the shirt worn on these goods coming floating by the circumference flank of the waist, if it sets.

---

[Translation done.]

\* NOTICES \*

JPO and NCIPJ are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

TECHNICAL FIELD

---

[Industrial Application]

This design is related with disposable trousers mold wear goods.

[0002]

---

[Translation done.]

**\* NOTICES \***

JPO and NCIP are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

**PRIOR ART**

---

**[Description of the Prior Art]**

Conventionally, as disposable trousers mold wear goods, a disposable diaper, disposable TORENINGU trousers, etc. are common knowledge. In order to make these trousers mold wear goods fit a wearer's body, there is a means to prepare elastic members, such as an elastic band, along the opening periphery of circumference opening of a drum of these goods and circumference opening of a foot.

[0003]

---

[Translation done.]

\* NOTICES \*

JPO and NCIP are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

EFFECT OF THE INVENTION

---

[Effect of the Device]

Since darts can be prepared by that slack when slack is in the circumference of the drum of trousers mold wear goods, or the circumference of a foot, and an end lengthens and attaches an adhesive firm attachment tape firmly, while the feeling of a fit of these wear goods becomes good, it can prevent excrement's leaking and coming out. Moreover, this firm attachment tape can turn up a part for the lobe from a crossover and a junction line for the junction line of before and a backward bodice outside. Thus, this shirt can be made to fit the body well, without the shirt worn on these goods coming floating by the circumference flank of the waist, if it sets.

---

[Translation done.]

\* NOTICES \*

JPO and NCIPJ are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

TECHNICAL PROBLEM

---

[Problem(s) to be Solved by the Device]

If these wear goods are too large for a wearer or the shrinkage force of an elastic member does not fully act on a wearer, there is a problem that slack arises and urine and other excrement leak [ these worn goods / the bottom of a shearing ] from the circumference of \*\* or its foot in opening of wear goods.

[0004]

Then, it is making into the technical problem to solve said problem by this design preparing the firm attachment tape which can lengthen on the external surface of wear goods in parallel with an opening periphery, and can be attached firmly to it, and enabling it to prepare darts by the slack produced in opening.

[0005]

---

[Translation done.]



\* NOTICES \*

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

MEANS

---

[Means for Solving the Problem]

The place made into a summary in order that this design may solve said technical problem is as follows.

[0006]

this design — past time and later self — piling up time by the inside of the circumference flank of the right-and-left waist, and joining — it is — before and later self — it is premised on the disposable trousers mold wear goods with which circumference opening of a drum and circumference opening of a foot of a Uichi Hidari pair are formed of said junction, while the right-and-left side edge at the time sets at least to said joint and is turned outside.

[0007]

In these wear goods, one side by the side of an end fixes on either external surface of past time and a back bodice [ near the periphery of circumference opening of the waist ] at least. They are being prepared in the external surface of the direction's bodice on which the firm attachment tape which has the binder spreading section is extended [ said / a periphery and ] on one side with the same opposite one end, and a crossover and said fixing are not making at least said joint possible [ firm attachment ] through the binder spreading section of said opposite one end, and the description of a design of \*\*\*.

[0008]

In the desirable embodiment of this design, before [ said ], a backward bodice, and said firm attachment tape are elasticity ingredients.

[0009]

---

[Translation done.]



**\* NOTICES \***

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

**OPERATION**

---

**[Function]**

In the trousers mold wear goods concerning this design, since the firm attachment tape which can be extended in parallel with an opening periphery, and can straddle and attach at least the joint of the circumference flank of the waist firmly is prepared, darts can be prepared by the slack of opening produced when these goods are worn.

Moreover, before being turned outside at least by the joint, a firm attachment tape can be attached firmly so that the side edge of - backward bodice may be turned up on external surface.

[0010]

---

[Translation done.]

## \* NOTICES \*

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

## EXAMPLE

## [Example]

It is as follows when it explains based on drawing of attachment of the detail of the trousers mold wear goods concerning this design.

## [0011]

Drawing 1 is the perspective view of the disposable trousers mold diaper 1 concerning this design. In the diaper 1, an absorber 5 is made to intervene among these and it has piled up, and the liquid-permeable inner sheet 3 of elasticity and the non-liquid-permeable nature external surface sheet 4 of elasticity fold in two the sheets 3 and 4 set in these piles by the length-from-the-crotch-to-the-cuff part 6, join by the junction line 7 by the circumference flank of the waist on either side, and are used as the trousers mold. A diaper 1 has 1-at past time A, back bodice 1B, the circumference opening 8 of the waist, and the circumference opening 9 of a foot of a Uichi Hidari pair, and is intermittently joined to each openings 8 and 9 in parallel with those peripheries under the elongation of the ribbon-like elastic member 10 to the inside of the outside sheet 4. While you made it pile each other up, the side edge of - external surface sheets 3 and 4 has extended toward the outside of a diaper 1 in the junction line 7. In the diaper 1 before wear, an elastic member 10 contracts and each openings 8 and 9 have become a gathers cut. The firm attachment tape 11 which end one side fixed on the outside sheet 4 of back bodice 1B is formed along the periphery of each openings 8 and 9.

## [0012]

Drawing 2 is X-X-ray sectional view in drawing 1, and shows the structure of the thickness direction of the firm attachment tape 11. It is the fixing part 12 and the end side of the firm attachment tape 11 has fixed the one side on the outside sheet 4 with hot melt adhesive 14. In the firm attachment tape 11, the part of the remainder of a longitudinal direction is the non-fixing part 13, and has binder spreading section 15A which applied the binder 15 to the same one side as one side which fixed, and \*\*\*\*\* 13A which has not been applied. This firm attachment tape 11 is made into the longitudinal direction through the release paper 16 at three fold. The silicon release agent 18 is applied to the field which the binder 17 with comparatively weak adhesion is applied to the external surface of the fixing part 12, and counters the binder 17 of the turned-up firm attachment tape 11. The condition that the firm attachment tape 11 turned up with this binder 17 is maintained. Thus, if the constituted firm attachment tape 11 \*\*\*\* \*\*\*\*\* 13A and pulls it in the direction of arrow-head P, the parts of a release paper 16 and a release agent 18 separate, and it can be lengthened ranging over the junction line 7 in the die-length direction.

## [0013]

Drawing 3 is the perspective view of the diaper 1 in the condition of the firm attachment tape 11 which removed the release paper 16 having been pulled, and it having been attached firmly to the outside sheet 4 by the side of 1A at the past time, and having prepared darts by slack of the circumference of the drum of a diaper 1, and the circumference of a foot.

## [0014]

Drawing 4 is the Y-Y line sectional view of drawing 3. It is extended so that the firm attachment tape 11 may straddle the darts part 19 which gathered and brought near the slack containing the junction line 7. Before it has attached the non-fixing part 13 firmly to the outside sheet 4 through the binder 15 and it extends from the junction line 7 by this firm attachment, - backward bodice is turned up on the outside sheet 4, and the darts part 19 gathered and brought near is extended, and the firm attachment tape 11 returns. What is necessary is to \*\*\*\* \*\*\*\*\* 13A, if and just to remove the firm attachment to the outside sheet 4 of the firm attachment tape 11, when you remove a diaper 1. The tape material of elasticity and non-elasticity can be

used for the firm attachment tape 11.

[0015]

When the outside sheet 4 of a diaper 1 is a thin sheet plastic, the sheet for reinforcement can be joined to the range which may attach the firm attachment tape 11 firmly. The firm attachment tape 11 will not be torn with the thin outside sheet 4, either, if attachment and detachment are repeated to this sheet for reinforcement.

[0016]

Drawing 5 is the perspective view showing the condition of having attached the firm attachment tape 11 firmly, after rounding off the used diaper 1. Thus, if the firm attachment tape 11 is used, it can dispose of a diaper 1, without exposing the unclean part.

[0017]

---

[Translation done.]



**\* NOTICES \***

JPO and NCIPJ are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

**DESCRIPTION OF DRAWINGS**

---

**[Brief Description of the Drawings]**

**[Drawing 1]** The perspective view of the trousers mold wear goods concerning this design.

**[Drawing 2]** X-X-ray sectional view of drawing 1 .

**[Drawing 3]** The same perspective view as drawing 1 which shows the busy condition of a firm attachment tape.

**[Drawing 4]** The Y-Y line sectional view of drawing 3 .

**[Drawing 5]** The perspective view of the diaper rounded off.

**[Description of Notations]**

1 Trousers Mold Wear Goods

1A Past time

1B Back bodice

4 Outside Sheet

7 Junction Line

8 Circumference Opening of Drum

9 Circumference Opening of Foot

11 Firm Attachment Tape

12 End (Fixing Part)

15 Binder Layer

---

[Translation done.]

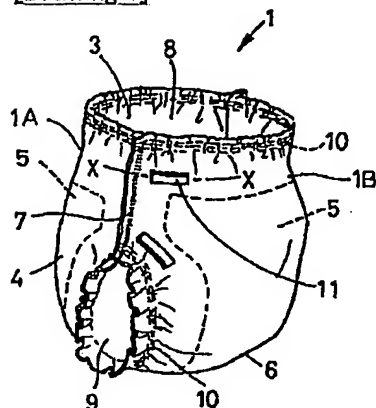
## \* NOTICES \*

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

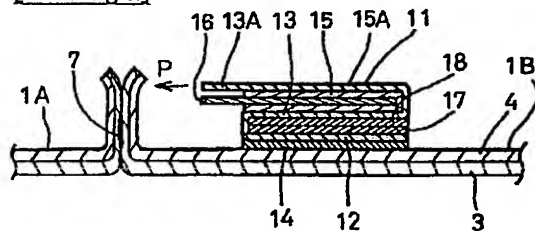
- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

## DRAWINGS

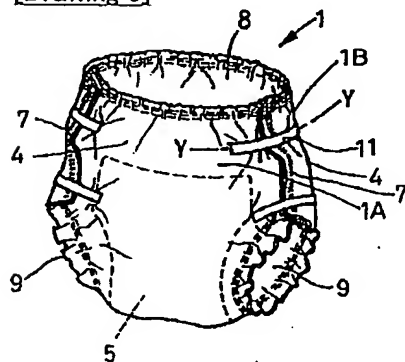
[Drawing 1]



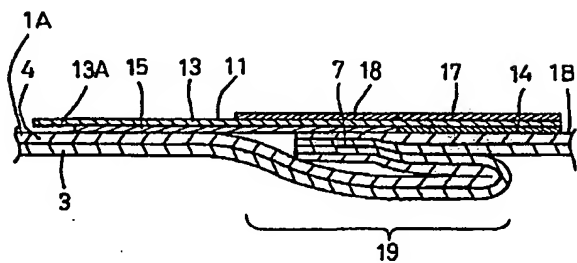
[Drawing 2]



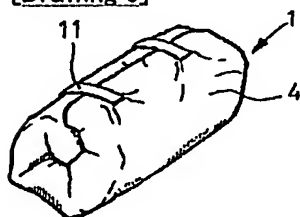
[Drawing 3]



[Drawing 4]



[Drawing 5]



[Translation done.]